

**Proposed Project
Total Construction-Related Fuel Usage**

Construction

Table 1. Construction Year One (2022)			
Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²
Project Construction	127	127,000	10.15
Total Gallons Consumed During Construction Year One:			12,512

Table 2. Construction Year Two (2023)			
Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²
Project Construction	193	193,000	10.15
Total Gallons Consumed During Construction Year Two:			19,015

Table 2. Construction Year Three (2024)			
Action	Carbon Dioxide Equivalents (CO₂e) in Metric Tons¹	Conversion of Metric Tons to Kilograms²	Construction Equipment Emission Factor²
Project Construction	125	125,000	10.15
Total Gallons Consumed During Construction Year Three:			12,315

Sources:
¹ECORP Consulting. 2022. Air Quality and Greenhouse Gas Emissions Assessment: Saxon Reservoir and Replacement Well Project
²Climate Registry. 2016. *General Reporting Protocol for the Voluntary Reporting Program version 2.1*. January 2016.
<http://www.theclimateregistry.org/wp-content/uploads/2014/11/General-Reporting-Protocol-Version-2.1.pdf>

Initial Storage Tank Filling - Energy Consumption and GHG Calculations

Booster Water Pumping						Energy Consumption					SCE Intensity Factors ⁴		Estimated Emissions		CO2e
Storage Capacity	Pumping rate ¹ (gpm)	Pump Size ² (hp)	Pumping Duration			Storage Capacity	Pump Energy Use Rate (ac/ft) ³ (kWhr/ac/ft)	Total Energy		GHG Pollutant	(lb/MWh)	(lb)	(tonne)	(tonne)	
			(min)	(hr)	(days)			(kWhr)	(MWh)						
750000	450	40	1,667	28	1.16	750000	2.32	383.0	888	0.89	CO2	702.44	623.44	0.28	0.28
											CH4	0.029	0.03	0.000012	
											N2O	0.006	0.01	0.0000024	

¹ Per design specifications provided by applicant, 11/8/18

² Pump size assumed based on previous projects

³ Based on 323,650.8 gallons per ac. ft.

⁴ Based on CalEEMod Utility Intensity Factors for Southern California Edison